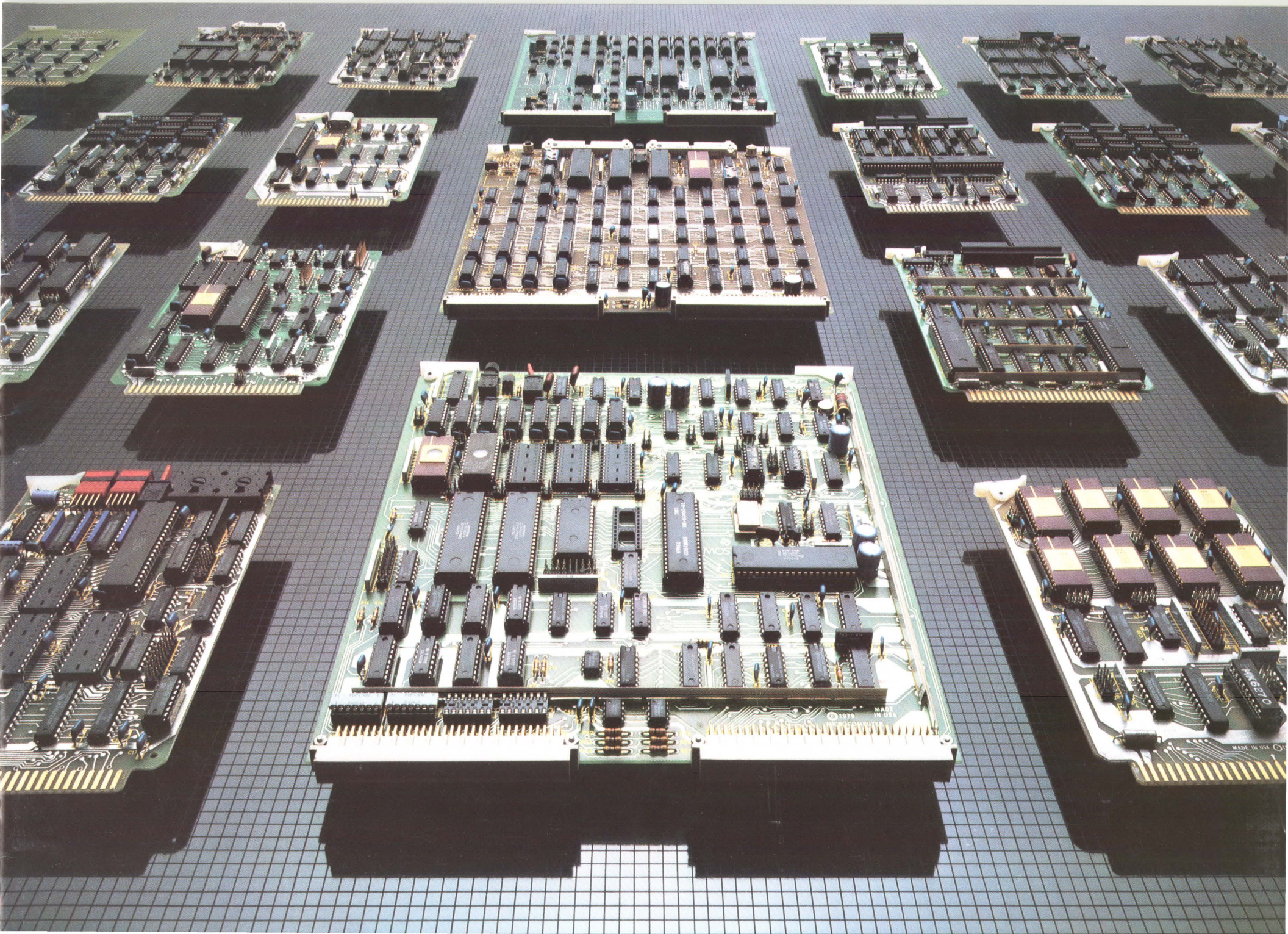
Mostek 1981 Micro Systems Short Form Catalog



One of the fastest growing groups at Mostek is the Micro Systems Department. Chartered in 1975 to develop systems hardware and software, the group is now one of the world's largest manufacturers of microcomputer systems.

One of the fastest growing product lines is Mostek MD Series™ microcomputer boards. Based on the STD BUS, the MD Series was introduced in 1978. Since then, both the MD Series and the STD BUS have grown in popularity. Reasons why include compact board size, single function/board approach and the lowest cost, highest performance in the industry. In this way, an engineer selects exactly the functions his system requires. The boards are then inserted into an STD BUS card cage. Redesigns are as easy as adding, changing, or deleting modules. The result is an extremely powerful, cost-effective solution. And all MD boards carry a full one- year warranty.

Based on the powerful Z80 microprocessor, MD Series cards use a superset of the STD BUS designated the STD-Z80 BUS. The STD-Z80 BUS fully supports the powerful Mode 2 interrupt structure of the Z80. Most of our MD Series boards will work with both the STD BUS and the STD-Z80 BUS. However, those boards specifically designed around Z80 peripherals will require the STD-Z80 BUS for proper operation.

Software is becoming more and more the key element to system design. Our wide range of software combines with the power of the Z80 to provide quick and versatile solutions. Available software includes a new C/PM* compatible disk operating system. Also offered is a new Process BASIC which is a development system as well as a stand-alone executive. There is also real-time multi-tasking executive software, diagnostic software, and more.

Mostek SDE Series™ microcomputer systems form the basis for many OEM products. These powerful, memory intensive boards are based on the double-Eurocard format. Designed around SDE Series cards is the Mostek Matrix™-80/SDS. While the Matrix 80-SDS is primarily a hardware and software development system for Z80 and 3870 microcomputers, it also serves as an excellent test bed for OEM applications using SDE Series boards. SDE Series boards include single-board computers, memory expansion boards, floppy disk controller cards, A/D converters and more.

Quality is another key reason why Mostek microcomputer systems are setting standards for the industry. All Micro Systems boards undergo extensive checking and testing before shipment. And all boards and systems come with complete documentation.

Increasing our manufacturing capacity is a new progressive assembly line. This new machine will increase board production capacity to over 500,000 units per year.

Mostek Micro Systems maintains a full Customer Service Department which includes application engineers and a service center. An incoming WATS line is maintained to expedite the service of suspected defective boards. The national WATS line is 1-800-527-0523; Texas WATS is 1-800-442-3845.

For quality, cost-effective microcomputer systems, come to the source: Mostek Micro Systems.

*Trademark of Digital Research Corp.

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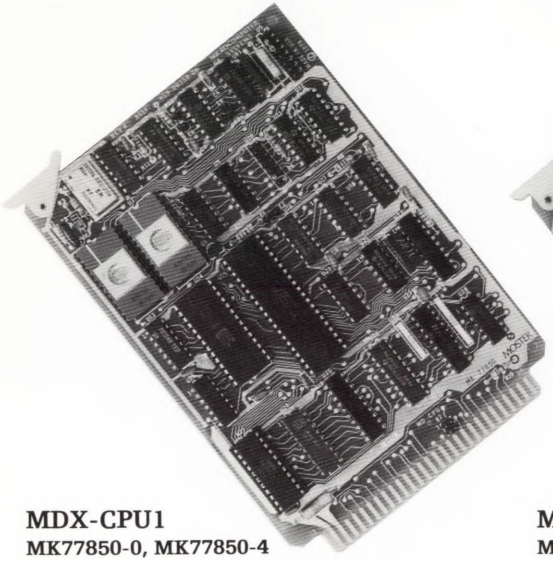


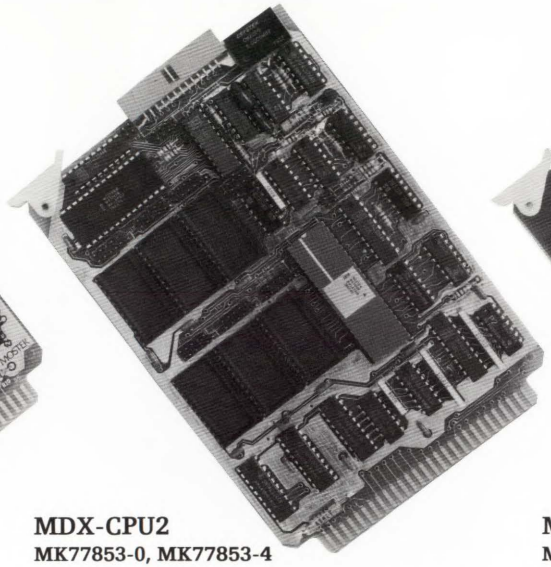
MDX-CPU1

MK77850-0, MK77850-4

The heart of an STD-Z80 BUS system, the MDX-CPU1 is ideal for OEM applications. Simply insert your custom ROM or EPROM memories into the two on-board user-sockets and configure them virtually anywhere within the Z80 memory map.

Features

- STD-Z80 BUS compatible
- 4K x 8 EPROM (two 2716s, customer-provided)
- 256 x 8 Static RAM (compatible with DDT-80 debugger)
- Flexible Memory decoding for EPROM and RAM
- Four counter/timer channels
- Restart 0000H or E0000H (strapping option)
- Debug-compatible for single step in DDT-80
- 2.5MHz version (-0)
- 4MHz version(-4)
- +5V only
- Fully-buffered signals for system expandability
- Z80 CPU



MDX-CPU2

MK77853-0, MK77853-4

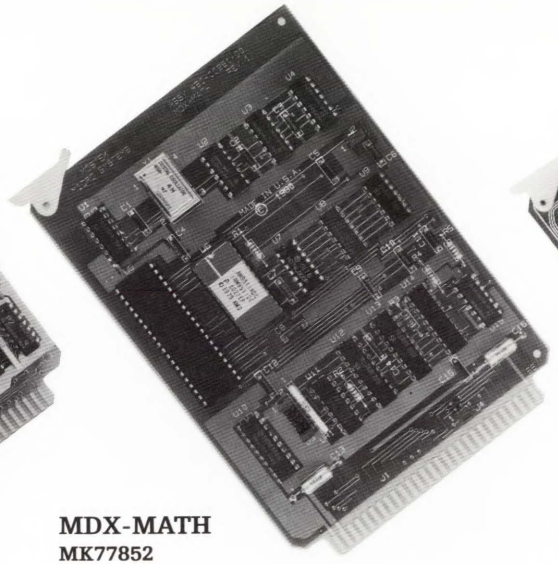
Forming the basis for many STD-Z80 BUS systems, the MDX-CPU2 features six 24-pin memory sockets which let you populate the module with any combination of designated RAM, ROM, and EPROM.

Features

- STD-Z80 BUS compatible
- Utilizes the powerful Z80 microprocessor
- Six 24-pin sockets which may be strapped to accept any combination of the following industry-standard memory devices:

EPROM	STATIC RAM	ROM
2758 (1K x 8)	MK4118 (1K x 8)	MK34000 (2K x 8)
2716 (2K x 8)	MK4801 (1K x 8)	
2732 (4K x 8)	MK4802 (2K x 8)	

- Flexible memory decoding on any 1K boundary
- Bidirectional address, data and control busses to permit external DMA
- Four cascadable counter/timer channels
- Automatic, transparent dynamic memory refresh
- Fully-buffered signals for system expandability
- Selectable reset address to either 0000H or E000H
- Selectable wait-state generator
- Compatible with MDX-SST for single step operation during debugging
- 4MHz version available (-4)
- Single +5 Volt supply



MDX-MATH

MK77852

The MDX-MATH board, based on the AM9511A Arithmetic Processing Unit, provides high performance fixed and floating point trigonometric and mathematical operations for STD-Z80 BUS systems.

Features

- STD-Z80 BUS compatible
- Fixed-point 16 and 32-bit operations
- Floating point 32-bit operations
- Binary data formats
- Add, Subtract, Multiply and Divide
- Trigonometric and inverse trigonometric functions
- Square roots, logarithms, exponentials
- Float-to-fixed and fixed-to-float conversions
- Stack-oriented operand storage
- On-board wait-state insertion circuitry

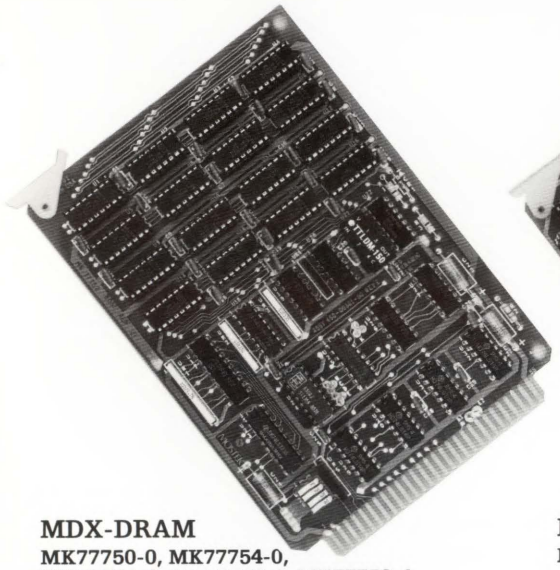
MD-SBC1

MK77851-0, MK77851-4

The MD-SBC1 is a complete Z80-based microcomputer on a 4.5″ x 6.5″ circuit module. Use it in systems where small size and Z80 processing power are required. A stand-alone computer, the MD-SBC1 is not STD-Z80 BUS expandable.

Features

- Z80 Microprocessor
- 2K byte RAM capacity with 1K included
- Sockets for 8K bytes 2716 EPROM
- Crystal clock—2.5MHz
- Three TTL-buffered 8-bit OUTPUT ports
- Two TTL-buffered 8-bit INPUT Ports
- Two interrupt inputs
- Single +5 volt power supply
- 4MHz version available



MDX-DRAM

MK77750-0, MK77754-0, MK77754-4, MK77752-0, MK77752-4

These memory expansion boards for the STD-Z80 BUS are available in three memory sizes: 8K, 16K, and 32K bytes. The boards are populated exclusively with Mostek industry-standard memories.

Features

- STD-Z80 BUS compatible
- Three memory sizes:
  8K x 8 (MDX-DRAM8)
  16K x 8 (MDX-DRAM16)
  32K x 8 (MDX-DRAM32)
- Selectable addressing 4K boundaries
- 4 MHz version available (−4)

MDX-SRAM

MK77755, MK77756

A static memory expansion board for STD-BUS systems, the MDX-SRAM is available in two memory capacities: 4K bytes (MDX-SRAM4) and 8K bytes (MDX-SRAM8). Both SRAM boards are 2.5MHz and 4.0MHz compatible.

Features

- STD and STD-Z80 BUS compatible
- Two memory sizes:
  4K x 8 (MDX-SRAM4)
  8K x 8 (MDX-SRAM8)
- Selectable starting address on 4K boundaries
- 2.5MHz and 4.0MHz compatible
- Single +5 Volt supply

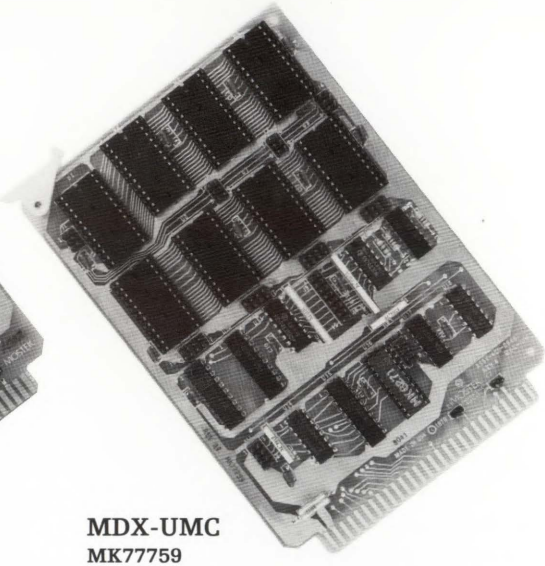
MDX-EPROM16

MK77758

A versatile memory expansion board for STD BUS microsystems, the MDX-EPROM16 comes complete with eight 2716 EPROMs. Capacity is 16K bytes.

Features

- STD and STD-Z80 BUS compatible
- Accepts the following industry standard EPROMS:
  2758 (1K x 8)
  2716 (2K x 8)
  2732 (4K x 8)
- Eight 2716 EPROMs supplied for maximum storage of 16K x 8
- Wait-state generator for 4MHz operations
- Selectable addressing on 4K boundaries
- Operates at 2.5MHz or 4.0MHz system speed
- Single +5 Volt supply



MDX-UMC

MK77759

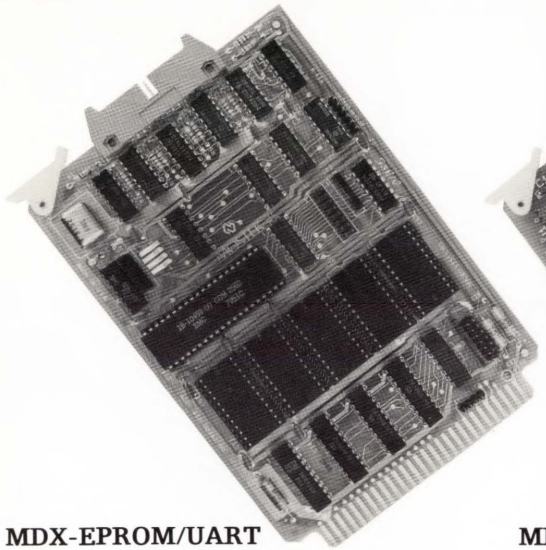
A universal memory module for the STD BUS, the MDX-UMC lets you configure the exact memory requirements for your system. By using the strapping options, you can mix combinations of ROM/RAM/EPROM on a single board.

Features

- STD and STD-Z80 BUS compatible
- Can be strapped to accept the following industry-standard memory devices:

EPROM	STATIC RAM	ROM
2758 (1K x 8)	MK4118 (1K x 8)	MK34000 (2K x 8)
2716 (2K x 8)	MK4802 (2K x 8)	
2732 (4K x 8)		

- Memories can be mixed to form a combination memory board
- Operates at 2.5MHz and 4.0MHz system clocks speeds
- Wait-state generator provided
- Single +5 Volt supply



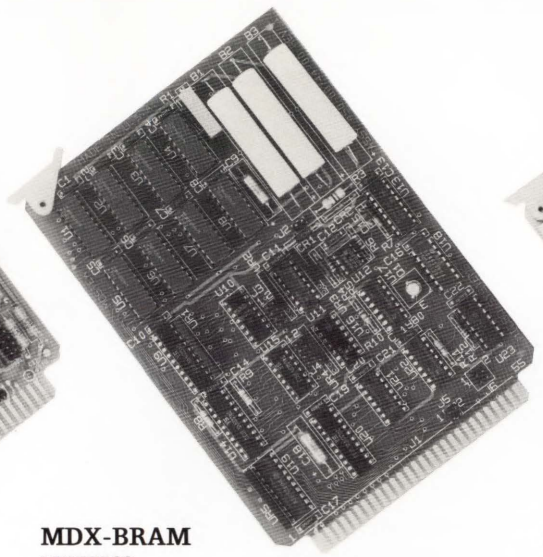
MDX-EPROM/UART

MK77753-0, MK77753-4

This combination board lets you add up to 10K bytes of EPROM memory in five on-board sockets. Also on-board is a full duplex UART to transmit and receive data at the serial port. Operation and UART controls are under software control.

Features

- STD and STD-Z80 BUS compatible
- 10K x 8 EPROM/ROM (2716's not included)
- Selectable addressing on 2K boundaries
- Serial I/O channel:
  RS-232 and 20 mA interface
  Reader-step control for Teletypes
  Baud-rate generator (110-19200 Baud)
- 4MHz version available (−4)
- Strap-selectable address



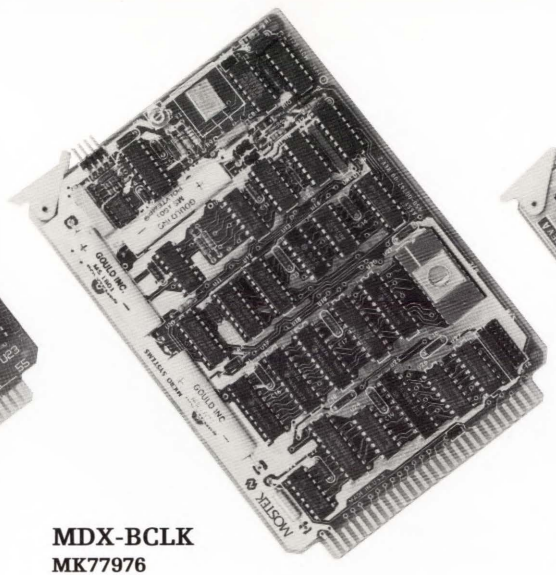
MDX-BRAM

MK77760

The MDX-BRAM is designed to save 2K or 4K bytes of memory during a power failure. Power problems can be detected either by the resident 5 volt monitoring circuitry or by an external input from the Mostek Power-Fail-Detect module (MDX-PFD). Once detected, the on-board battery power is enabled and memory access is blocked to protect the stored data.

Features

- STD BUS and STD-Z80 BUS compatible
- 4K memory
- 4K boundary selection
- 4K bytes of memory data retainable for 5 days with fully-charged batteries
- Uses rechargable batteries
- Strap-selectable wait-state generator
- Use in 2.5MHz or 4MHz systems



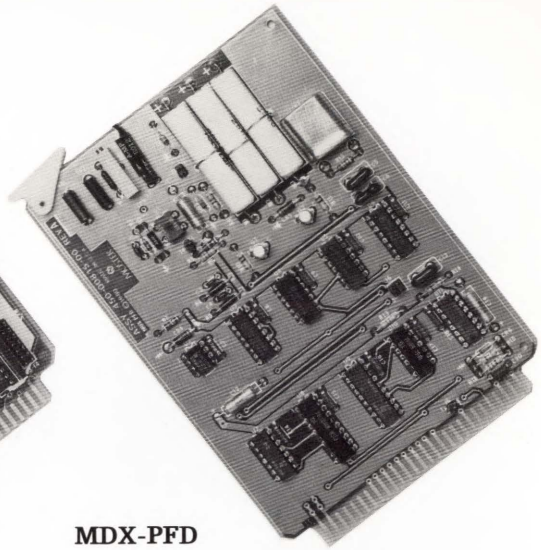
MDX-BCLK

MK77976

On-board batteries let the MDX-BCLK operate for up to five days without system power. Power-fail detect circuitry detects the loss of system power and relays it to the CPU to allow orderly power-down sequencing.

Features

- Five Functions:
  1. Seconds
  2. Minutes
  3. Hours
  4. Days
  5. Months
- Operates with both 2.5MHz and 4.0MHz systems
- Maintains functionality for up to 5 days on fully-charged batteries
- Provides one of four interrupts (via CTC on CPU2):
  1. 62.5 milliseconds
  2. 1 second
  3. 1 minute
  4. 1 hour
- Port-addressable
- Single +5-volt supply
- STD and STD-Z80 BUS compatible



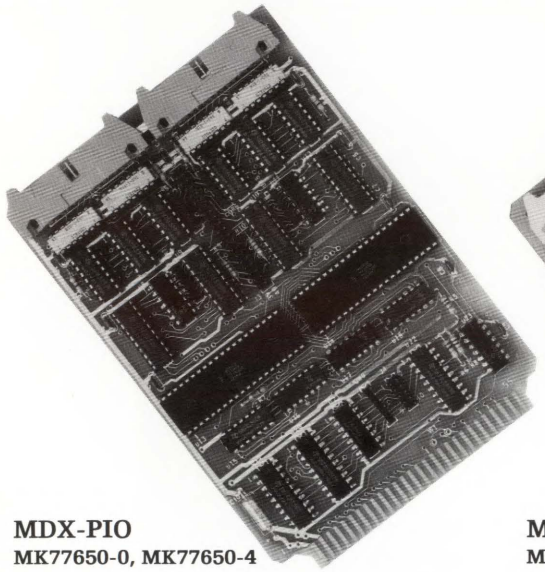
MDX-PFD

MK77979

This module is designed for use in industrial control systems where an orderly system shut-down and start-up sequence is required upon loss and restoration of power.

Features

- Detects loss of AC power after ½ cycle
- Detects brownout condition (AC below 95 V)
- Contains logic to sequence pushbutton reset and nonmaskable interrupt
- Battery backup for up to 5 days via rechargeable nicads
- STD-Z80 BUS compatible
- Available Summer 1981



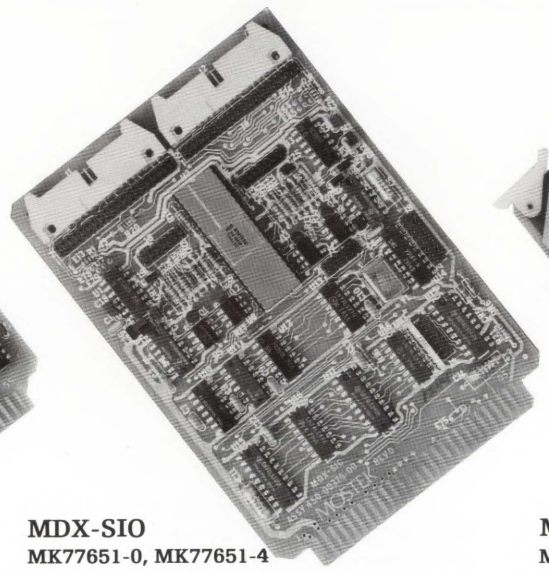
MDX-PIO

MK77650-0, MK77650-4

This module has four independent 8-bit I/O ports with two handshake (data transfer) control lines per port. Two of the 8-bit ports are capable of true bidirectional I/O.

Features

- STD-Z80 BUS compatible
- Four 8-bit I/O ports with two handshake lines per port
- All I/O lines fully buffered
- I/O lines TTL-compatible with provision for termination resistor networks
- Jumper options for inverted or non-inverted handshake
- Two 8-bit ports capable of true bidirectional I/O
- Programmable In only, Out only, or Bidirectional
- Output data buffers selectable to provide inverted or non-inverted drive capability
- Interrupt-driven programmability
- Address strap-selectable
- 4MHz option (-4)
- Interfaces to Opto-22 PB-4, 8, 16 Panels
- Fully buffered for MD Series expandability



MDX-SIO

MK77651-0, MK77651-4

This is a multi-protocol asynchronous or synchronous I/O module. It provides two full duplex serial channels. Each channel has an independent baud rate clock generator. The MDX-SIO is capable of handling virtually any serial protocol.

Features

- STD-Z80 BUS compatible
- Two independent full-duplex channels
- Independent programmable Baud-rate clocks
- Asynchronous data rates — 110 to 19.2K bits per second
- Receiver data registers quadruply-buffered
- Transmitter data registers double-buffered
- Asynchronous operation
- Binary synchronous operation
- HDLC or SDLC operation
- Both CRC-16 and CRC-CCITT (-0 and -1) hardware implemented
- Modem control
- Operates as DTE or DCE
- Serial input and output as either RS-232 or 20mA current loop
- Current loop optically isolated
- Current loop selectable for either active or passive mode
- Address programmable
- 4MHz Option (-4)

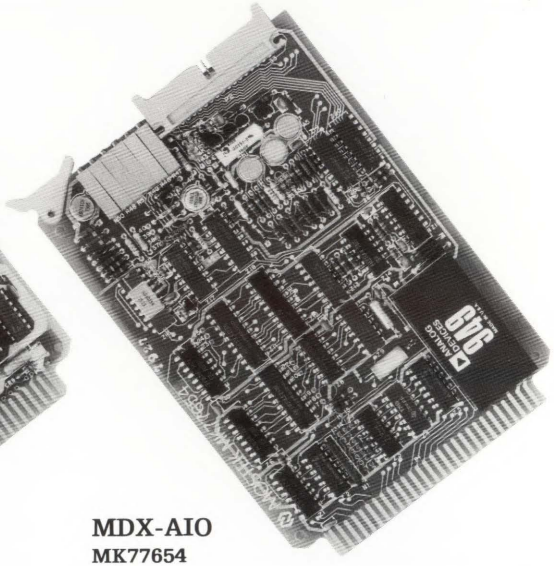
MDX-SIO2

MK77670-0, MK77670-4

Like the MDX-SIO, the MDX-SIO2 is a multi-protocol asynchronous or synchronous I/O module for the STD-Z80 BUS. The MDX-SIO2 has two fully synchronous serial channels with modem controls.

Features

- Compatible with STD-Z80 BUS
- Two independent full-duplex channels
- Independent programmable Baud rate clocks
- Asynchronous data rates — 12.5 to 19.2K bits per second
- Receiver data registers quadruply buffered
- Transmitter data registers double buffered
- Asynchronous operation
- Binary synchronous operation
- HDLC or SDLC operation
- Both CRC-16 and CRC-CCITT (-0 and -1) hardware implemented
- Modem control
- Configurable as DTE or DCE
- Serial input and output as either RS-232 or 20mA current loop
- Current loop optically isolated
- Current loop selectable for either active or passive mode
- Address programmable
- 4MHz option (-4)



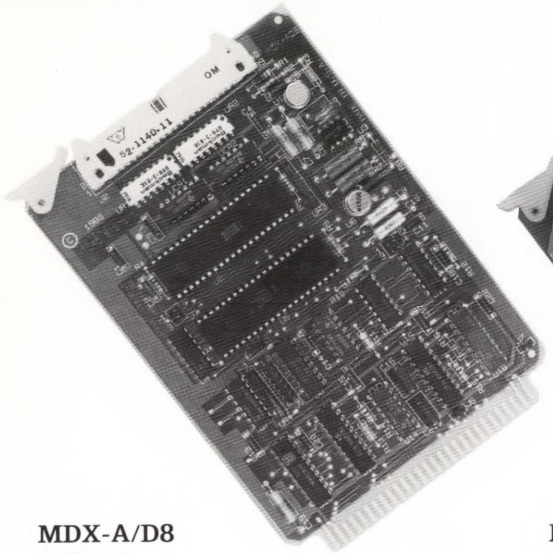
MDX-AIO

MK77654

This module is a complete analog I/O subsystem which simplifies the interface of real-time analog signals to the STD BUS. The MDX-AIO has eight differential or 16 single-ended input capability plus two independent channels of analog output with 8-bit resolution.

Features

- STD and STD-Z80 BUS compatible
- Memory-mapped I/O
- Combination Analog Input and Output
- 8 Differential Analog Inputs or 16 Single-Ended Analog Inputs
- Two channels of 8-bit Analog Output
- Input overvoltage protection to ± 35 volts
- Sample-and-Hold Amplifier On-Board
- Monolithic 10-Bit A/D Converter
- Single On-Board Precision Reference Circuit
- Single +5-Volt Supply
- 2.5 or 4.0 MHz capability



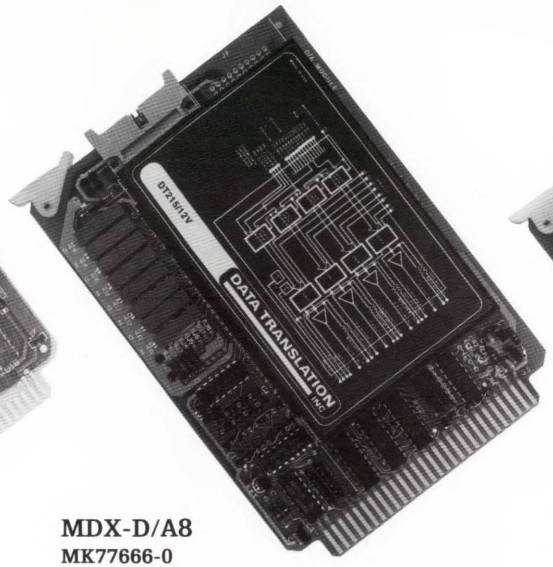
MDX-A/D8

MK77674

This STD-Z80 BUS module is an 8-bit A/D converter with 16 single-ended analog inputs. Additional provisions are available to allow further analog expansion if desired.

Features

- 8-bit A/D Converter with 16 single-ended analog inputs
- 0-to-5-volt input range
- Total error < ± ¾ LSB
- Linearity error < ± ¾ LSB
- No missing codes
- Guaranteed monotonicity
- No zero or full-scale adjustment required
- Provisions for additional channel expansion
- Sample and hold on-board
- Programmable I/O addresses
- Compatible with STD-Z80 BUS
- 2.5 and 4.0 MHz capability



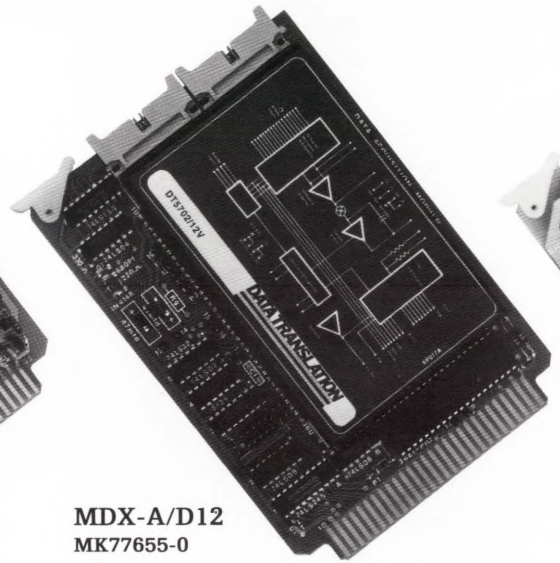
MDX-D/A8

MK77666-0

This digital to analog board features four completely independent analog output channels. Each channel has user-selectable output ranges of ±5V and 0 to 5V. The MDX-D/A8 can be used as either a memory-mapped peripheral or as an I/O port.

Features

- STD and STD-Z80 BUS compatible
- 8-Bit D/A Converter
- Four independent channels
- Output voltage ranges of ±5V, 0 to 5V, ±10V, 0 to 10V
- Output current range of 4 to 20 mA
- 15V optional models available
- Programmable address
- 2.5MHz and 4.0MHz operation



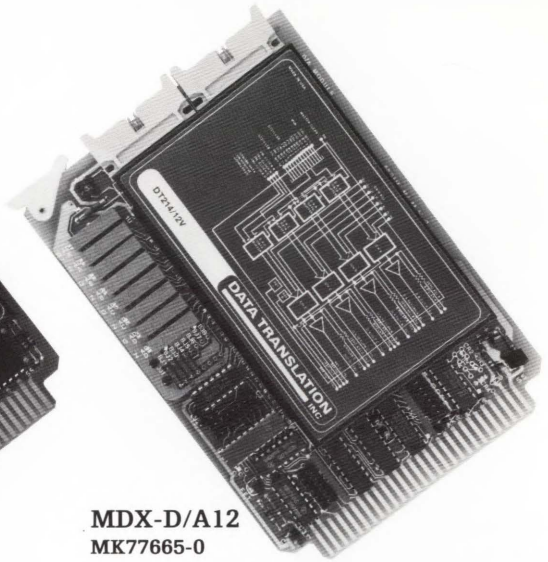
MDX-A/D12

MK77655-0

A 12 bit, 16 channel analog input board.

Features

- STD-Z80 BUS compatible
- 12-bit A/D Converter
- 16 Single-Ended or Eight Differential Input Channels
- Sample and Hold
- Two Analog Input Ranges ± 5 Volts, 0 to 5 Volts
- Provisions for input channel expansion
- Address programmable



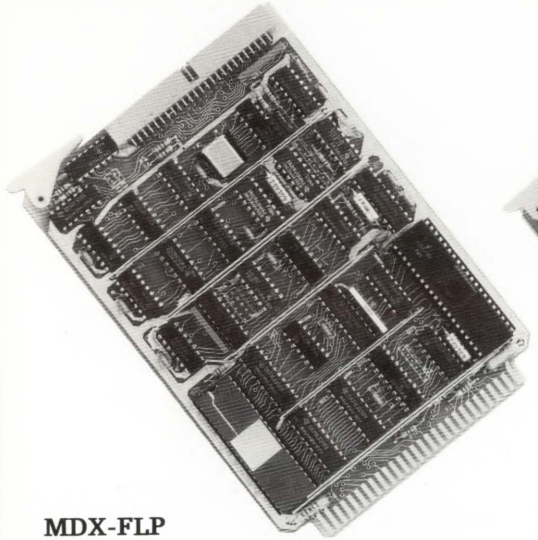
MDX-D/A12

MK77665-0

This module features four completely independent analog output channels. Each channel has user-selectable output ranges of ±5V and 0 to 5V. The MDX-D/A12 can be used as either a memory-mapped peripheral or as an I/O port.

Features

- STD-Z80 BUS and STD BUS compatible
- 12-bit D/A Converter
- Four independent channels
- Output voltage ranges of ±5V, 0 to 5V, ±10V, 0 to 10V
- Programmable address
- Both 2.5MHz and 4.0MHz compatible



MDX-FLP

MK77652-0

This single card provides all required controlling/formatting/interfacing logic between the STD-Z80 BUS and one to four floppy disk drives. It controls five inch or 8-inch drives, single density, single or dual sided, jumper-selectable.

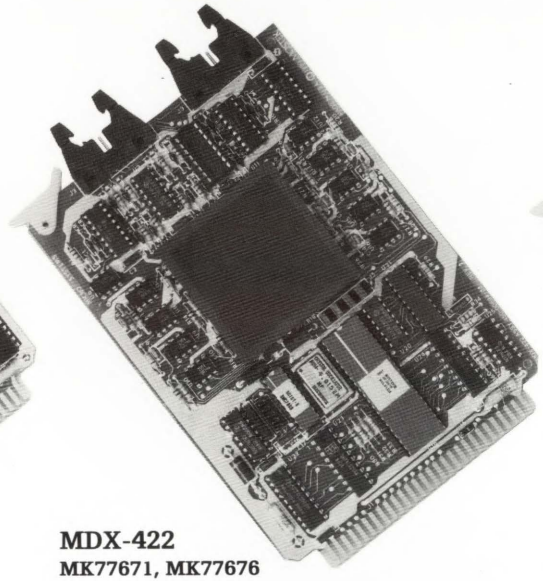
Features

- STD-Z80 BUS compatible
- One to four drives; four software-controlled select lines
- 5-inch or 8-inch drives, single-or dual-sided, jumper-selectable.
- Compatibility with IBM 3740 or other formats
- DMA or programmed data transfer
- 8-inch drives supported under FLP-80DOS, M/OS-80 and MITE-80 software; 5-inch drives under MITE-80
- 2.5MHz operation (system clock)

MDX-FLP 2

MK77677

- Available Summer 1981
- Single density and double density operation
- 2.5 and 4.0 MHz compatible
- STD-Z80 BUS compatible



MDX-422

MK77671, MK77676

Both the MDX-422N and the MDX-422I are dual-channel serial RS-422 interfaces for STD-Z80 BUS systems. The modules have RS-422 (balanced, differential) serial synchronous or asynchronous communication for long-distance (4000 feet) communication in noisy industrial environments. The RS-422 interface on the MDX-422N is non-isolated; on the MDX-422I, the RS-422 interface is isolated up to 400 volts above and below ground.

Features

- STD-Z80 BUS compatible
- Two independent asynchronous/ synchronous serial channels
- Independent software programmable baud rate clocks
- Asynchronous rates of 50 to 19.2K baud
- Synchronous rates of 800 to 307.2K baud
- BiSync, HDLC or SDLC operation
- Both CRC-16 and CRC-CCITT error detection are hardware implemented
- Receive data registers are quadruply buffered
- Transmitter data registers are double buffered
- RS-422 compatible input and output
- Up to 4000' data communication over RS-422 twisted pair
- MDX-422I: Common mode ground fault protection 400 Volts
- MDX-422I: 400 Volt optically isolated
- 2.5 and 4.0MHz capability

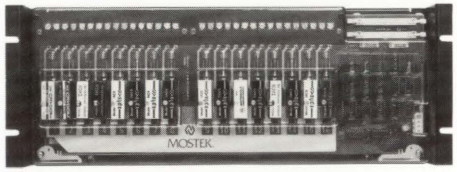
MDX-DIOB1

MK77672

This Digital I/O Bus interface module provides parallel, memory-mapped I/O to a maximum of 64 8-bit ports. Using 16 of Mostek's DIOPs (Digital Input/Output Panels), the MDX-DIOB1 is capable of servicing up to 256 relay modules.

Features

- STD and STD-Z80 BUS compatible
- Provides parallel, memory-mapped Digital I/O BUS
- Services up to 256 points
- Balanced, differential transmission with twisted-pair lines
- Address block selectable with jumpers
- Wait-state generator option
- Single +5-volt supply
- STD and STD-Z80 BUS
- 2.5 or 4.0 MHz capability



DIOP

MK77673

This digital I/O panel is a Digital I/O BUS peripheral that interfaces between the MDX-DIOB1 module and up to 16 industrial control signals. DIOP is designed for easy maintainability. Relay modules are socketed and can be easily replaced.

Features

- Provides isolated computer interface to 16 industrial I/O channels
- Uses plug-compatible solid-state or reed-relay modules
- Digital communications via balanced, differential twisted-pair lines
- Industrial barrier strip for field wiring
- Fuse holder, LED status indicator and manual turn-on switch provided for each relay
- Quick-disconnect leaves field wiring intact
- Single +5 volt supply
- Compatible with Mostek's Digital I/O BUS

MDX-DEBUG

MK77950-0, MK77950-4

This module has 10K bytes of firmware (DDT-80 and ASMB-80) and provides a low cost way to generate and debug Z80 programs on the STD-Z80 BUS as well as a serial asynchronous port. This module may be used in place of external development equipment.

Hardware Features

- STD-Z80 BUS compatible
- 4MHz version available (-4)
- Serial I/O Channel
- 10K bytes of ROM contain the following firmware: DDT-80, ASMB-80

Debugger Features

- Z80 Operating System with debug capability
- I/O peripheral drivers supplied

Text Editor Features

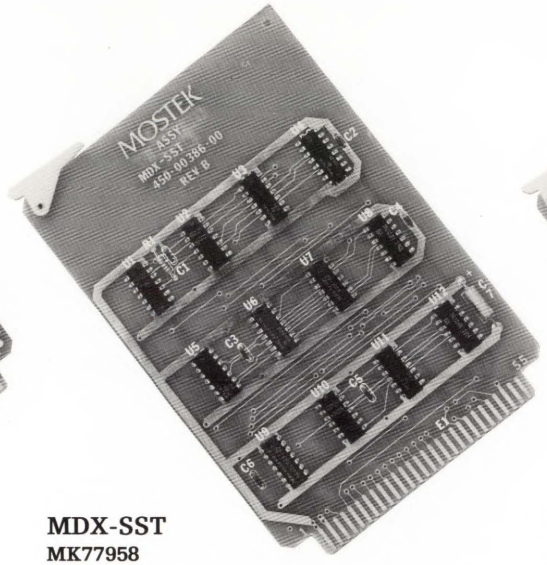
- Input and modification of ASCII Text
- Line and character editing

Assembler Features

- Assembles all Z80 mnemonics
- Object output in industry-standard hexadecimal format extended for Relocatable and Linkage Programs

Linking Loader Features

- Loads into memory both relocatable and non-relocatable object output of the assembler
- Loads Relocatable modules anywhere in memory
- Automatically provides linkage of global symbols between object modules as they are loaded
- ROM-based



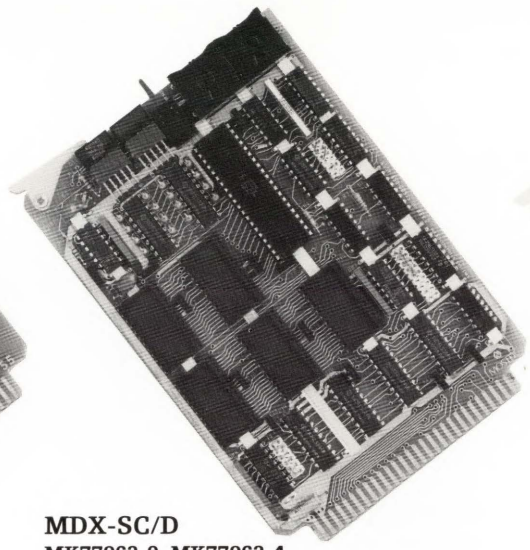
MDX-SST

MK77958

Used with the MDX-CPU1 or MDX-CPU2 and the MDX-DEBUG cards, the MDX-SST lets you hardware single-step instructions through RAM and/or EPROM/ROM with the capability of displaying all of the CPU registers on each instruction execution.

Features

- STD-Z80 BUS compatible
- Hardware single-step capability
- Compatible with DDT-80 Operating System
- +5 Volt only
- Both 2.5MHz and 4.0MHz compatible



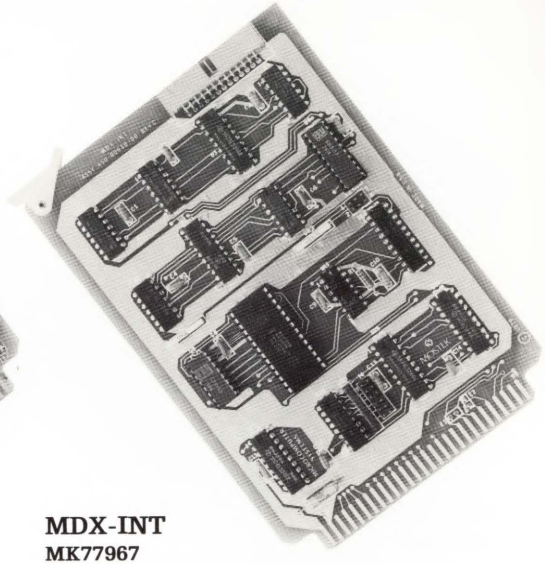
MDX-SC/D

MK77963-0, MK77963-4

A System Controller/Diagnostics card, the MDX-SC/D lets you diagnose your STD BUS system to verify the functionality of the MDX-modules. On-board sockets accommodate up to 10K bytes of EPROM which may contain diagnostic software or your application programs.

Features

- STD-Z80 BUS compatible
- Provides an operator interface; switches and lamps
- 10K x 8 EPROM (2716s not included)
- Dual-purpose card, memory and/or diagnostic interface
- Interrupt-driven programmability
- Strap-selectable address
- 4MHz Option (-4)
- Fully-buffered for MD Series expandability
- Diagnostic software package



MDX-INT

MK77967

This Interrupt-Timer expansion module provides interrupt expansion capability for STD-Z80 BUS systems.

Features

- STD-Z80 BUS compatible
- User-programmable CTC provides:
  - Four external vectored interrupts
    or
  - Four cascadable counter/timer channels
    or
  - any combination of the above
- Z80 Daisy Chain Interrupt Expansion
  - Allows up to 40 interrupt devices
  - User selectable expansion of System Interrupt Units (SIU)
  - Required for systems over five SIU's
- Nonmaskable Interrupt Input
- All input/output signals buffered
- 2.5 and 4.0 MHz compatible
- +5 Volt only operation

MDX-WW1
MK77959

A wire-wrap card with bussed power and ground lines on board.

MDX-WW2
MK77952

A general purpose wire-wrap card.

MD-EXT
MK77953

Extender card

MD-PWR1
MK77964

Open frame power supply: 115/230 VAC to +5V, +12V, −12V.

MD-RMC12
MK77966

12 slot rack mount chassis with power supply and fan: 60 Hz

MD-RMC12—50
MK77975

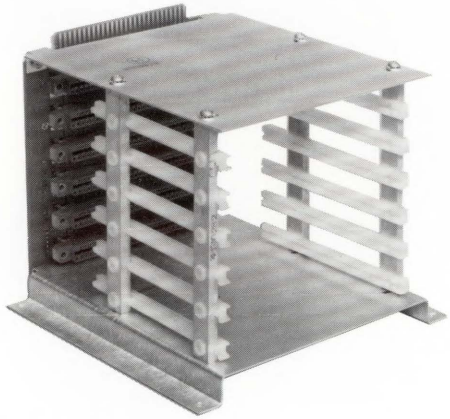
12 slot rack mount chassis with power supply and fan: 50 Hz

RMDFSS
MK78183

Rack-mounted dual floppy disk single-sided drives with power supply and enclosure.

RMDFSS−50
MK78185

Rack-mounted dual floppy disk single-sided drives with power supply and enclosure: 50 Hz



MD-CC6
MK77973

6 slot card cage, 0.75 inch centers

MD-CC12
MK77969

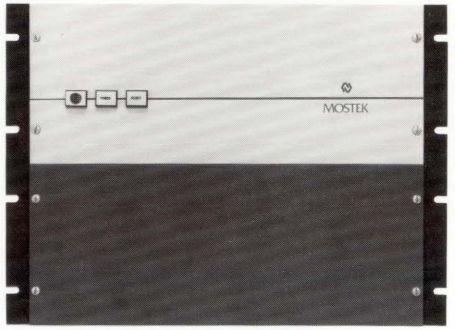
12 slot card cage, 0.75 inch centers

MD-CC16
MK77977

16 slot vertical card cage, 0.75 inch centers.

MD-CC6-WM
MK77978

Wall-mountable 6 slot card cage with 0.75 inch centers.



ENCL
MK77980

Industrial enclosure, 16 slot card cage, 115V, 300W supply

ENCL1
MK77987

Industrial enclosure, 16 slot card cage, 115V, 150W supply

ENCL2
MK77981

Industrial enclosure, 16 slot card cage, 230V, 300W supply

ENCL3
MK77988

Industrial enclosure, 16 slot card cage, 230V, 150W supply.

MD Series cables:

MD-232-DCE-C (MK77955): RS-232 DCE (female) to SIO or EPROM/UART cable.
MD-TTY-C (MK77956): TTY to SIO or EPROM/UART cable.
MD-PPG-C (MK77957): PROM Programmer (PPG 8/16) to PIO cable.
MD-232 DTE-C (MK77970): RS-232 DTE (male) to SIO or EPROM/UART cable.

M/OS-80

MK77984

Mostek M/OS-80 is a complete floppy disk operating system for the MDX or SDE board series. It is Mostek's CP/M* compatible operating system. Designed to be run on systems currently running FLP-80DOS, M/OS-80 will provide users with a comprehensive solution to a wide variety of system design problems. The software is provided on a single floppy diskette which is bootable on any Mostek disk development system.

There are a variety of utilities offered with the system. These include:

Designers Development Tool (DDT)
Operator Interface (OPI)

Transfer Utility	Print Utility
File/Disk Dumps	Print Spooler
Disk Diagnostic	Various Systems Utilities

These programs provide the user with a broad base of support and will permit the user to function more efficiently. In addition, because of M/OS-80's CP/M compatibility, an extremely large number of pre-written programs are made available.

Since M/OS-80 has been designed to be compatible with several CP/M type operating systems (CDOS*, I/OS*, SDOS* and TSA/OS*), programs designed to run with these operating systems will, therefore, run without problem provided that they conform to the standard CP/M V1.4 system calling conventions as described by Digital Research. Programs that directly utilize some hardware features or do not follow conventional rules cannot always be expected to work. Virtually all compilers and interpreters now sold for use on CP/M systems should work.

FLP-80DOS

MK78142, MK77962

The Mostek FLP-80DOS software package is designed for the Mostek dual floppy disk Z80 Development System or an MD board system. FLP-80DOS includes:

- Monitor
- Debugger
- Text Editor
- Z80 Macro Assembler
- Relocating Linking Loader
- Peripheral Interchange Program
- Linker
- A Generalized I/O System For Peripherals

These programs provide state-of-the-art software for developing Z80 programs as well as establishing a firm basis for OEM products.

DDT-80

MK78118

DDT-80 is the operating system for the SDB-80E and the MDX-DEBUG cards when those cards are used in a non-disk based system. It resides in a resident 2K ROM and provides the necessary tools and techniques to operate the system when developing microcomputer software.

CP/M is a Trademark of Digital Research, Inc.
CDOS is a Trademark of Cromemco, Inc.
SDOS is a Trademark of SD Systems, Inc.
TSA/OS and I/OS are Trademarks of Infosoft Systems, Inc.

MEDEX-80

MK77968

MEDEX-80 is a diagnostic software package for the MDX series of cards. It is a modular software package designed to diagnose faulty MDX card(s) within a system configuration. MEDEX-80 can function as a stand-alone package or it can be integrated into a user's software package. Only those modules applicable to a user's requirements need be used.

MEDEX-80 can reside in either RAM or EPROM, and the amount of memory required is dependent on the standard modules selected and the unique user modules included in the package. This diagnostic software package is designed to operate with the following minimum hardware configuration:

- Mostek MDX-CPU card (MDX-CPU1 or CPU2)
- Mostek MDX-SC/D card

Features

- Modular MDX board-level software
- User-expandable diagnostic software
- Stand-alone or integrated diagnostic package execution
- Interrupt-or non-interrupt-driven diagnostics
- Board-level diagnostics for:

CPU	SC/D	A/D 8
RAM	FLP	
ROM	MATH	

MITE-80/BIOS

MK77972

MITE-80 is designed for applications requiring asynchronous event handling of multiple tasks. MITE-80/BIOS contains a common set of routines that facilitate the design of I/O drivers.

Features

- Real time multi-tasking executive
- Debugger which recognizes task data structures
- Macro files to facilitate building tasks
- Memory-pool manager
- Timer handler which simulates any number of timers using one hardware timer
- I/O drivers for line printer, terminal, and floppy disk
- Basic I/O service subroutines to facilitate building new I/O drivers
- Error-handler task which provides standard system error recovery

ASMB-80

MK78119

The Mostek ASMB-80 is a software package which consists of a text editor, Z80 assembler, and relocating linking loader. The software is supplied in ROM for the Mostek SDB-80E and MDX-DEBUG cards.

PBASIC
MK78201, MK78203

Mostek PROCESS BASIC, or PBASIC, is the most extensive implementation of a Process-Control BASIC available for the Z80 microprocessor. PBASIC provides the process-control user with a non-volatile, ROMable monitor which, in turn, has the added capability of placing the application program into PROM. This provides for a completely non-volatile system that can be executed by simply turning on the power. PBASIC is a stand-alone executive and requires no operating system interface to execute.

Features

- Extensive process-control features
- Direct access to CPU I/O Ports
- Ability to read or write any memory location (PEEK, POKE)
- Dynamic allocation and deallocation of arrays
- IF...THEN...ELSE and IF...GO TO (both IF's may be nested)
- Direct (immediate) execution of statements
- Four variable types: integer, string, single and double-precision real
- Full PRINT USING capabilities for formatted output
- Can call any number of assembly languages subroutines
- Boolean (logical) operations
- Optional high-speed math version utilizing MDX-MATH card (MK78203)
- Stand-alone operation—requires no operating system
- WHILE...WEND structured construct
- Programs saved and retrieved from PROMs

ANSI BASIC
MK78157

Features

- Meets ANSI standard on BASIC (X3.60-1978)
- Direct access to CPU I/O Ports
- Ability to read or write any memory location (PEEK, POKE)
- Dynamic allocation and deallocation of arrays
- IF...THEN...ELSE and IF...GO TO (both if's may be nested)
- Direct (immediate) execution of statements
- Four variable types: Integer, string, real and double-precision real
- Long variable names significant up to 40 characters
- Full PRINT USING capabilities for formatted output
- Extensive program editing facilities
- Can call any number of assembly-language subroutines
- Boolean (logical) operations
- Supports up to six sequential and random access files on floppy disk
- Variable record length in random access files from one to 128 bytes/record
- Complete set of file manipulation statements
- Occupies only 23K bytes, not including operating system
- Allows console output to be redirected to the line printer
- WHILE...WEND structured construct
- Programs can be saved on disk in a protected format that cannot be listed on console

FORTRAN IV Compiler
MK78158

Mostek's FORTRAN IV Compiler package provides new capabilities for users of Z80-based microcomputer systems. Mostek FORTRAN is comparable to FORTRAN compilers on large mainframes and minicomputers. All of ANSI Standard FORTRAN X3.9-1966 is included except the COMPLEX data type. Therefore, users may take advantage of the many applications programs already written in FORTRAN.

Features

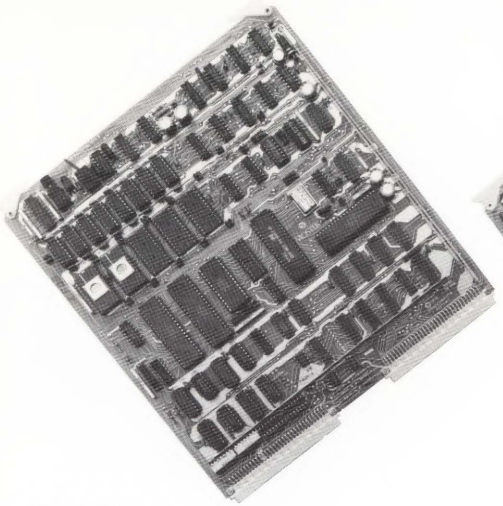
- All of ANSI standard FORTRAN IV (X3.9-1966) except complex data type
- Generates relocatable linkable object code
- Subroutines may be compiled separately and stored in a system library
- Enhancements include
  1. LOGICAL variables which can be used as integer quantities
  2. LOGICAL DO loops for tighter, faster execution of small-valued integer loops
  3. Mixed-mode arithmetic
  4. Hexadecimal constants
  5. Literals and Holleriths allowed in expressions
  6. Logical operations on integer data. .AND., .OR., .NOT. and .XOR. can be used for 16-bit or 8-bit Boolean operations
  7. READ/WRITE End-of-File or Error Condition transfer. END=n and ERR=n (where n is the statement number) can be included in READ or WRITE statements to transfer control to the specified statement on detection of an error or end-of-file condition
  8. ENCODE/DECODE for FORMAT operations to memory

LIB-80-V1
MK78164

The Mostek FLP-80DOS Software Library is a collection of programs of general utility that run under FLP-80DOS Version 2.0 or higher. These programs are used quite extensively at Mostek. They are being offered in source format on diskette so that the user may not only use them as supplied, but may use them as a base for individually-tailored software.

Features

- Includes 23 useful subroutines and programs for the Z80, including:
  - Lawrence Livermore Lab's Basic
  - Generalized sort program for up to eight fields per record
  - 8080-Z80 source-code converter
  - Fast disk-to-disk copy utility
  - Hexadecimal Dump Utility to dump memory on files
  - Assembly Language Formatter Utility to format Z80 source into columns
  - Word Processor Program Version 2.0, used to format documents
  - Disk Recovery Utility used to recover bad disk files
- All programs are supplied in source, object, and binary format with complete documentation on a standard FLP-80DOS diskette
- Requires FLP-80DOS Version 2.0 or higher



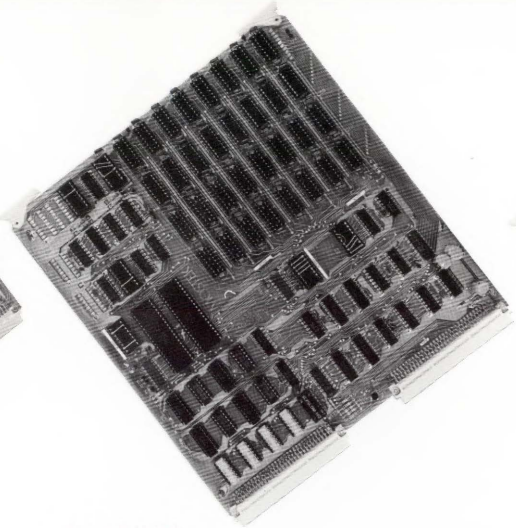
OEM-80E

MK78122, MK78124-3

This Z80-based computer board has sufficient on-board I/O and memory to be used in stand-alone applications yet it is fully expandable to support more memory and I/O.

Features

- Z80 CPU
- 20K x 8 EPROM
- Accepts 2708, 2716, or 2532 EPROM's
- 256 x 8 static scratchpad RAM on-board
- 16K (4K) x 8 dynamic RAM
- Z80 CTC — four counter/timer channels
- Restart to 0000H or E000H (switch option)
- On-board serial I/O port
- Software-programmable baud rate
- Current loop or RS-232-C (V.24) interface
- Four 8-bit parallel ports with handshake
- Ports buffered with TTL, socket-programmed
- Port direction in 4-bit blocks
- Programmable polarity on strobe lines
- Halt lamp
- Power-on-reset logic
- SDE BUS compatible



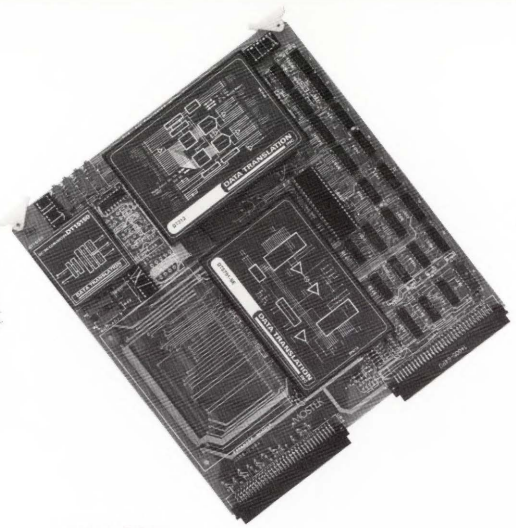
RAM-80E

MK78109, MK78110

These boards provide RAM expansion capabilities for the OEM-80E microcomputer. RAM-80AE provides an additional 16K bytes of memory. RAM-80BE provides memory expansion up to 64K bytes in 16K byte increments, plus it provides four 8-bit I/O ports.

Features

- Memory Capacity
  - RAM-80AE — 16,384 (16K) bytes using MK4027 RAMs
  - RAM-80BE — 16,384 (16K) bytes expandable to 65,536 (65K) bytes using MK4116 RAMs
  - RAM-80BE under page-mode operation — up to one megabyte of memory
- I/O Capacity (RAM-80BE only) Four 8-bit ports with handshake lines
- SDE-BUS compatible



A/D-80E

MK78172-42, MK78172-56, MK78175-40, MK78177-26

Available in different versions, these analog input/output boards let you choose the right combination of analog I/O for your system.

Features

A/D-80E/1791 — Analog Input/Output MK78172-42

- SDE BUS Compatible
- Input ranges: ± 5V ± 10V 0-10V 0-5V
- 16 Single Ended Input Channels
- 12 Bit A/D Converter
- 2 D/A Output Channels with Scope Control

A/D-80E/1791 — Analog Input/Output MK78172-56

- Input ranges: ±5V ±10V 0-10V 0-5V
- 32 Differential Input Channels
- 12 Bit A/D Converter
- 2 D/A Output Channels with Scope Control

A/D-80E-1795 — Analog Input/Output MK78175-40

- Low-level, Wide-range Input
- 16 Single Ended Input Channels
- 12 Bit A/D Converter
- 2 D/A Output Channels with Scope Control

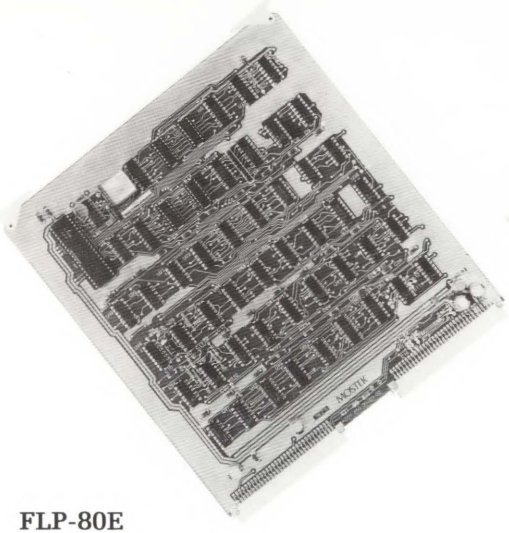
DCC-80E

MK78192

This board is a multi-protocol asynchronous or synchronous I/O module for use with the SDE BUS. It provides 4 independent full-duplex serial data channels.

Features

- 4 independent full-duplex channels
- Independent programmable Baud-rate clocks
- Data rates — 75 to 38.4K bits per second
- Receiver data registers quadruply-buffered
- Transmitter data registers double-buffered
- Asynchronous operation
- Binary synchronous operation
- HDLC or IBM SDLC operation
- Both CRC-16 and CRC-CCITT (-0 and -1) hardware implemented
- Modem control
- Operates as DTE or DCE
- Serial input and output as RS-232-C
- Address programmable
- Each individual channel with NRZI encoder/decoder
- SDE BUS compatible



FLP-80E

MK78146

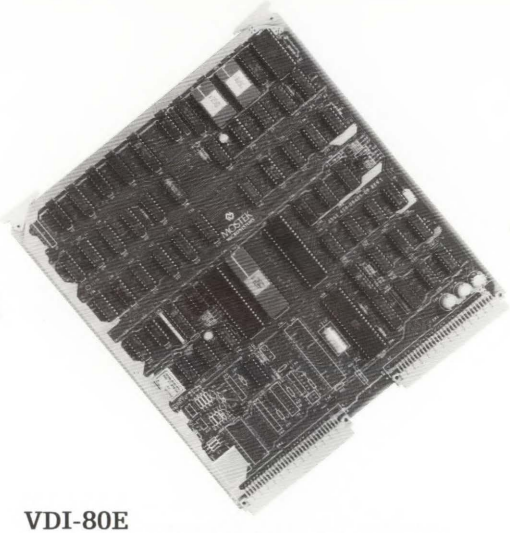
Use this card to interface the OEM-80E to up to four flexible disk drives. Or use it directly in your OEM application.

Features

- Soft-sector format compatible with IBM 3740 data entry system format
- Capable of controlling up to four flexible disk drives per subsystem
- Full disk initialization (Formatting)
- Full-sector (128 bytes) FIFO buffering for data
- Double buffering for control and status
- Automatic track-seek with verification
- Completely interruptable for real-time systems
- SDE BUS compatible

Applications

- Flexible disk-drive interface for use with Mostek's Software Development Board (OEM-80E) in a disk-based Z80 Development System (MATRIX).
- Single or multiple flexible disk-drive controller/formatter for disk-based OEM systems using the OEM-80E Single Board Computer.



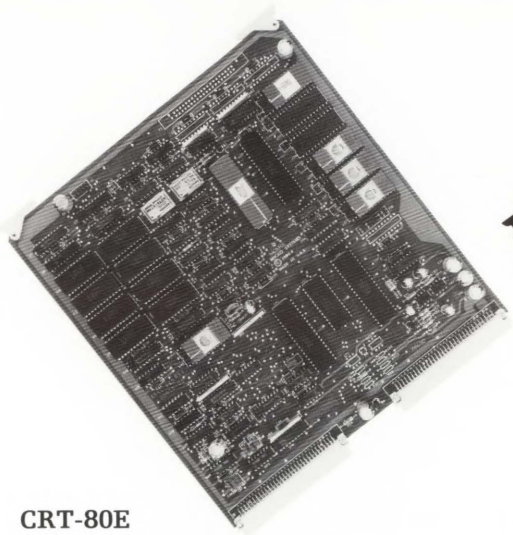
VDI-80E

MK78198, MK78033, MK78199, MK78035

This Video Display Interface card serves as the interface between an ASCII encoded keyboard and an EIA standard video monitor to a microcomputer development system.

Features

- 24-line x 80-character display
- 5 x 8 dot matrix
- Upper and lower case display
- 96-character ASCII plus 32 special characters
- Programmable TABs
- Programmable Inverse Video
- Bidirectional Scrolling
- 48-character FIFO
- Auto repeat on keyboard interface
- Direct and relative cursor addressing and cursor address readback
- Direct speaker drive for bell tone
- Ability to read character, line, or screen information stored in screen RAM
- Two versions
  Serial: 110-9600 BAUD
  Parallel: 3200 Character/Sec
- 50/60 Hz versions



CRT-80E

MK78207

This is the first board level emulator of Digital Equipment Corporation's™ VT100 video display. It also supports European character sets and comes with a standard printer port.

Features

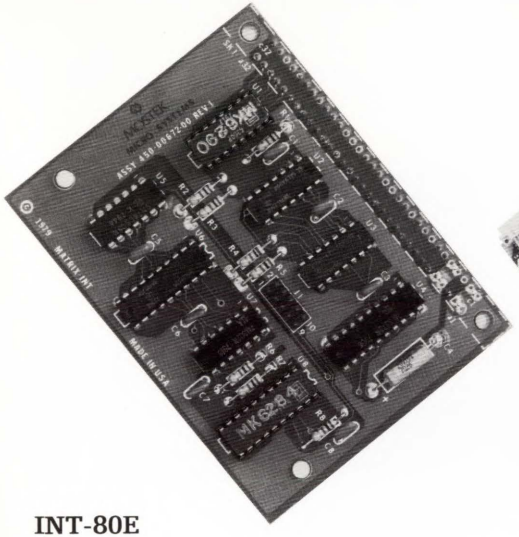
- Fully DEC™ VT100™ compatible, plus extra features
- Variable display formats, 24 x 80 or 132
- Any combination of 5 programmable attributes on a per character basis
- 132 x 120 point graphics
- 7 x 9 character display format with descenders in a 9 x 10 point field
- Standard or reverse video
- European and USASCII character sets supported in standard PROM (8 total)
- Line drawing graphics. Continuous vertical/horizontal lines can be formed
- Split screen operation
- Full duplex auxiliary serial link (printer port)
  50-19.2K Baud (16 steps)
  RS-232 V24) interface
- Keyboard programmable user options stored in EAROM
- 256 character FIFO
- 50 or 60 Hz operation
- Full duplex main serial link
  50-19.2K Baud (16 steps)
  Independent receive/transmit speeds
  Full modem control/interface signaling
  RS-232 (V.24) standard, opto-isolated current loop optional

SDE-Combo

This 4MHz Z80-based computer integrates the Z80 CPU, 64K bytes DRAM memory, 2 SIO ports, 4 counter/timer channels DMA and floppy disk controller onto one card compatible with the Mostek SDE BUS.

Features

- Z80-4 CPU
- Two 28 pin sockets are provided which may be strapped to accept 2716 or 2764 EPROM
- 64K x 8 dynamic RAM
- Z80 CTC—four counter/timer channels
- Restart to 0000H or any 4K boundary from 0000H to F000H, (jumper-option)
- Two on-board serial RS-232 I/O ports
- Software programmable baud rate (50-19.2K)
- Four 8-bit parallel I/O ports with handshake
- Power on reset logic
- Programmable polarity on PIO strobe lines
- Fully hysteresis buffered SDE bus
- Double Eurocard format
- Capable of controlling up to four flexible disk drives
- Soft sector format compatible with IBM 3740 data entry system format
- Full disk initialization (formatting)
- Automatic track seek with verification
- Completely interruptable for real time systems
- 8″ or 5¼″ disk drive capability
- Programmed DMA disk data transfers



INT-80E
MK78194

This interrupt expansion module provides system interrupt expansion capability of up to 40 system interrupt units that are Z80 compatible with full Mode 2 interrupt capability on the SDE BUS.

Features

- Z80 Daisy Chain Interrupt Expansion
- Allows up to 40 system interrupt units (SIUs)
- User-selectable expansion of System
- Strap selectable wait stating for up to 15, 25, or 40 SIUs
- Required for systems with over 5 SIUs
- SDE BUS compatible

SDE-EXT
MK79062

Extender card for the SD Series.

SDE-WW1
MK79063

Wire wrap card with power and ground bussed.

SDE-RMC6
MK78182-1, MK78182-2

Standard 19-inch, rack-mountable chassis, 7 inch panel height, self-contained power and cooling, 110/115/230 Volt 50/60 Hz operation.

Features

- Standard 19-inch rack-mountable chassis; 7-inch panel height
- Removable structural foam front panel for internal access
- Front panel RESET switch and POWER-ON indicator
- Six-slot card cage
- Cards mounted horizontally for ease of cooling and cable routing
- Self-contained power supply and 115 CFM fan
- 100/115/230 Volt 50/60 Hz operation

SD Series cables:

SDE-CRT-C (MK78152): Matrix to CRT interface cable

SDE-CPTR-C (MK79089): Matrix to Mostek printer (Centronics model 702) cable.

SDE-PPG-C (MK79090): Matrix to PPG 8/16 interface cable

SDE-DFE-C (MK79088): Interface cable from the Matrix 80/SDS CPU enclosure to the RMDFSS floppy disk drive enclosure.

RMDFSS
MK78183

Rack-mounted dual floppy disk single-sided drives with power supply and enclosure.

CRT
MK78190-1

A high performance, keyboard display unit that is fully compatible with the MATRIX system.

LINE PRINTER
MK78191-1

A dot matrix line printer that interfaces directly with the MATRIX system.

PPG-8/16 PROM Programmer
MK79081

The PPG-8/16 programs, reads and verifies 2708, 2758, and 2716 type PROMS.

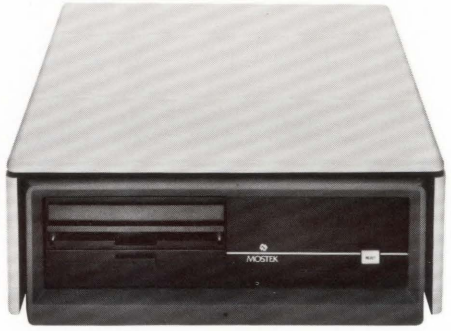
MATRIX™-80/SDS

MK78188, MK78189

The Mostek MATRIX™ is a complete state-of-the-art, floppy disk-based computer. Not only does it provide all the necessary tools for software development, but it provides complete hardware/software debug through Mostek's AIM™ series of real time in-circuit emulation cards for the Z80 as well as the 3870 family of single-chip microcomputers. The MATRIX has at its heart the powerful OEM-80E (Single Board Computer), the RAM-80BE (RAM I/O add-on board), and the FLP-80E (floppy disk controller board). Because these boards and software are available separately to OEM users, the MATRIX serves as an excellent test bed for developing systems applications.

The disk-based system eliminates the need for other mass storage media and provides ease of interface to any peripheral normally used with computers. The file-based structure for storage and retrieval consolidates the data base and provides a reliable portable media to speed and facilitate software development.

The FLP-80DOS Disk Operating System is designed for maximum flexibility both in use and expansion to meet a multitude of end-user or OEM needs. FLP-80DOS is compatible with Mostek's SD and MD Series of OEM boards, allowing software designed on the MATRIX to be directly used in OEM board applications.



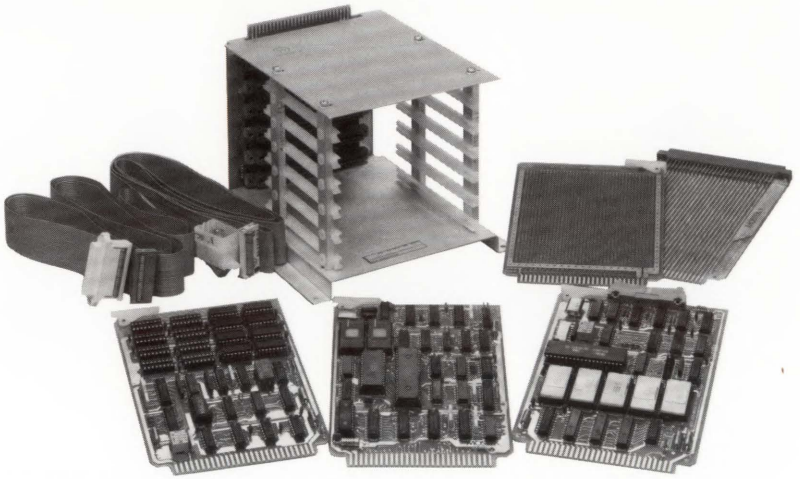
MATRIX-80/SDT

MK78206, MK78210

The MATRIX-80/SDT (Software Development Tool), with the addition of a console terminal, is a totally integrated system which contains all hardware necessary for implementing a floppy-disk-based software development system for STD BUS systems. In addition, the system contains hardware for interfacing a PROM Programmer as well as a Centronics-type printer. An interface is also provided for a serial ASCII terminal. Mass storage is provided by means of an 8-inch, single-sided, single-density, floppy-disk drive. Three more 8-inch drives can be added externally.

Features

- 8-inch Single-Sided, Single-Density Floppy Disk Drive
- MDX-CPU1 CPU Card
- MDX-DRAM32A Memory Card(2) 64KB RAM
- MDX-EPROM/UART Serial I/O Memory Card
- MDX-FLP Floppy-Disk Controller
- MDX-PIO Parallel I/O Card (32 I/O lines)
- 6 slot Card Cage
- Will drive a serial ASCII terminal
- PIO card will interface a PROM programmer and a Centronics-type printer
- Supplied with standard system software
- FLP-80DOS Software Supplied
- 2.5MHz System Clock



MDX-PROTO

MK77951-0, MK77951-4

An inexpensive prototyping kit for STD-Z80 BUS systems.

Features

- STD-Z80 BUS compatible
- 6-slot card cage with mother board (MK77954)
- MDX-CPU1 module (MK77850-0, MK77850-4)
- MDX-DRAM8 module (MK77750-0): 2.5MHz version
- MDX-DRAM16-4 module (MK77754-4): 4MHz version
- MDX-DEBUG module (MK77950-0, MK77950-4)
- MD-WW2 Wire-wrap board (MK77952)
- MD-EXT Extender board (MK77593)
- Cables for RS-232 device (MK77955) or TTY(MK77956)
- 4MHz option available (MDX-PROTO-4)

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